Application No.: Not Yet Assigned 3 Docket No.: 60384(71699)

## **AMENDMENTS TO THE CLAIMS**

1. (original) A method of preventing, reducing, or inhibiting invasiveness and metastasis of tumor cells in a subject comprising administering to the subject a therapeutically effective amount of the B-subunit of Shiga toxin.

- 2. (original) The method of claim 1, wherein the tumor cells are colon tumor cells.
- 3. (original) The method of claim 1, wherein the tumor cells are derived from a tissue selected from the group consisting of: colon, lung, brain, skin, ovary, pancreas, liver, stomach, bladder, bone, testicle, uterus, adipose tissue, throat, kidney, tongue, pituitary gland, thyroid, lymphoid tissue, eye, and cervix.
- 4. (currently amended) The method of any one of claims 1-3, wherein the B-subunit of Shiga toxin is Stx1B.
- 5. (currently amended) The method of <del>any one of</del> claims 1-3, wherein the B-subunit of Shiga toxin is Stx2B.
- 6. (currently amended) The method of any one of claims 1-5, wherein the therapeutically effective amount of the B-subunit of sShiga toxin of is administered prior to the onset of metastasis by the tumor cells.
- 7. (currently amended) The method of any-one-of claims 1-5, wherein the therapeutically effective amount of the B-subunit of sShiga toxin is administered subsequent to the onset of metastasis by the tumor cells.
- 8. (currently amended) The method of any one of claims 1-7, further comprising administering to the subject a therapeutically effective amount of radiation.

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- 9. (currently amended) The method of any one of claims 1-8, further comprising administering to the subject a therapeutically effective amount of at least one chemotherapeutic agent.
- 10. (currently amended) The method of <del>any one of claims 1-9, wherein the tumor cells produce Gb3.</del>
- 11. (currently amended) The method of any one of claims 1-10, wherein the subject is a human.
- 12. (currently amended) The method of <del>any one of claims 1-11</del>, wherein the B subunit of Shiga toxin is conjugated to a therapeutic moiety.
- 13. (original) A method of identifying a compound capable of preventing, reducing, or inhibiting tumor cell invasiveness and metastasis comprising:
  - a) contacting a cell that produces Gb<sub>3</sub> with a test compound; and
  - b) measuring Gb<sub>3</sub> production or activity by the cell,

wherein a compound which reduces or inhibits Gb<sub>3</sub> production by the tumor cells is identified as a compound capable of preventing, reducing, or inhibiting tumor cell metastasis.

- 14. (original) The method of claim 13, wherein measuring Gb<sub>3</sub> production comprises measuring the level Gb<sub>3</sub> Synthetase mRNA.
- 15. (original) The method of claim 14, wherein the Gb<sub>3</sub> Synthetase mRNA level is measured using a method selected from the group consisting of: Northern blotting, RNAse protection, primer extension, and RT-PCR.
- 16. (original) The method of claim 13, wherein measuring Gb<sub>3</sub> expression comprises measuring the level Gb<sub>3</sub> lipid.

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17. (original) The method of claim 16, wherein the Gb<sub>3</sub> lipid level is measured using a method selected from the group consisting of: chromatography, ELISA, RIA, FACS, and immunocytochemistry.